

**Flood Control Project Maintenance
Levee Inspections**

Fall 2013 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

RD2062	Overall LMA Rating	Total LMA Miles	* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.					
Reclamation District No. 2062 Stewart	M *	12.35						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Trim / Thin Trees	0.02		0.02	0.16%				
Animal Control	0.10		0.10	0.81%				
Erosion / Bank Caving	0.01		0.01	0.08%				
<i>Supplemental</i>								
DWR Erosion Survey	0.13	0.20	0.93	7.53%				
<i>LMA Totals:</i>	0.26	0.20	1.06	8.58% *	0.00	0.00	0.00	0.00

Unit No. 01 San Joaquin River LB	Overall Unit Rating	Total Unit Miles						
RD2062	A	2.69						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Animal Control	0.04		0.04	1.49%				
<i>Unit Totals:</i>	0.04	0.00	0.04	1.49%	0.00	0.00	0.00	0.00

Unit No. 02 Paradise Cut RB	Overall Unit Rating	Total Unit Miles						
RD2062	A	4.03						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Trim / Thin Trees	0.01		0.01	0.25%				
Animal Control	0.04		0.04	0.99%				
<i>Supplemental</i>								
DWR Erosion Survey	0.10		0.10	2.48%				
<i>Unit Totals:</i>	0.15	0.00	0.15	3.72%	0.00	0.00	0.00	0.00

Unit No. 03 Old River LB	Overall Unit Rating	Total Unit Miles						
RD2062	M	5.63						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Trim / Thin Trees	0.01		0.01	0.18%				
Animal Control	0.02		0.02	0.36%				
Erosion / Bank Caving	0.01		0.01	0.18%				
<i>Supplemental</i>								
DWR Erosion Survey	0.03	0.20	0.83	14.74%				
<i>Unit Totals:</i>	0.07	0.20	0.87	15.45%	0.00	0.00	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2013 Levee Inspection Results

Reclamation District No. 2062 Stewart

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			M	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Reclamation District No. 2062 Stewart

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Left	2.69
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	04/04/2013 - 04/04/2013		09/24/2013 - 09/24/2013	
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk	
Accompanied By	Michael Moncrief MBK Engineers		Michael Moncrief MBK Engineers	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2062 Stewart

Waterway					Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River					Left	2.69	09/24/2013 09/24/2013	Maksim Khashchuk

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1			Earthen Levee	Operations & Maintenance Manuals	WS	A Ma		°	°	2
DWR ID: DWR_RD2062_01_f_2013_2										
2			Earthen Levee	Emergency Supplies & Equipment	WS	A Ma		°	°	5
DWR ID: DWR_RD2062_01_s_2013_5										
3			Earthen Levee	Flood Preparedness & Training	WS	A Ma		°	°	8
DWR ID: DWR_RD2062_01_s_2013_8										
4	0.49	0.49	Earthen Levee	Animal Control	CR	C Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: 2 burrows, which may be cause of erosion at this location.	37.804807 ° -121.320754 °	37.804807 ° -121.320754 °	4
DWR ID: DWR_RD2062_01_s_2012_4										
5	0.50	0.50	Earthen Levee	Erosion / Bank Caving	WS	C Ma	E2 : Schedule repair of erosion site prior to the next inspection. Inspector Comments: Erosion taking place at edge of crown.	37.804716 ° -121.320511 °	37.804716 ° -121.320511 °	3
DWR ID: DWR_RD2062_01_s_2012_3										
6	0.57	0.57	Earthen Levee	Erosion / Bank Caving	WS	C Ma	E2 : Schedule repair of erosion site prior to the next inspection. Inspector Comments: Levee crown is approximately 100' at this point.	37.805106 ° -121.319154 °	37.805106 ° -121.319154 °	6
DWR ID: DWR_RD2062_01_s_2012_6										
7	0.81	0.81	Earthen Levee	Trim / Thin Trees	WS	C Ma	T5 : Tree stumps.	37.804747 ° -121.315183 °	37.804747 ° -121.315183 °	7
DWR ID: DWR_RD2062_01_s_2012_7										

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.69	09/24/2013 09/24/2013	Maksim Khashchuk

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
8	0.91	0.91	Supplemental	DWR Erosion Survey	WS	C	Inspector Comments: 08/13/2013. This was repaired prior to the boat survey. No new erosion found at the site 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: No significant changes observed at the site. There is vegetation on the slope. There is a bridge construction site just upstream of the erosion. The impact of the construction may need to be monitored. 09/07/2010: No significant changes observed on site. Sloughing of the existing rip rap revetment on the lower slope has developed into an erosion pocket. There is moderate annual grass growth on the slope. 08/06/2010: Recommended as local maintenance issue, per CLRO. 03/09/2010: Per Michael Moncrief of MBK, site is scheduled for repair this year. 2009: Landside ground surface has been raised to the height of the levee crown; sloughing of the existing rip rap revetment on the lower slope that has created a pocket, exposing underlying soil; Site # is the same RM54.34,LM1.08; previously rated "M". 2006: Previously marked with stake. [2013 Site ID:RD2062U01RM54.14]	37.804080 ° -121.314060 °	37.804080 ° -121.314060 °	1
9	1.18	1.40	Earthen Levee	Crown Surface / Depressions / Rutting	CR	C	C2 : Repair depressions or ruts in the crown or slope. Inspector Comments: High shoulder and slope of road will cause deep ponding. Approximately 1' deep.	37.800147 ° -121.313703 °	37.797164 ° -121.313976 °	15
DWR ID: DWR_RD2062_01_s_2012_15										
10	1.31	1.31	Earthen Levee	Animal Control	WS	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.798273 ° -121.313638 °	37.798273 ° -121.313638 °	21
DWR ID: DWR_RD2062_01_f_2013_21										
11	1.67	1.67	Earthen Levee	Encroachments	WSA/W	Ma	PI : Pipe Inspector Comments: Pipes do not have a positive closure device at the waterside end. Recommend installing a positive closure device on each pipe.	37.793516 ° -121.315335 °	37.793516 ° -121.315335 °	10
DWR ID: DWR_RD2062_01_s_2012_10										
12	1.83	1.83	Earthen Levee	Animal Control	WS	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.791873 ° -121.313350 °	37.791873 ° -121.313350 °	11
DWR ID: DWR_RD2062_01_s_2012_11										
13	1.84	1.84	Earthen Levee	Animal Control	WS	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.791887 ° -121.313178 °	37.791887 ° -121.313178 °	16
DWR ID: DWR_RD2062_01_s_2012_16										
14	1.85	1.85	Earthen Levee	Animal Control	WS	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.791798 ° -121.312904 °	37.791798 ° -121.312904 °	12
DWR ID: DWR_RD2062_01_s_2012_12										
15	2.04	2.04	Earthen Levee	Slope Stability	WS	C	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.	37.792877 ° -121.310063 °	37.792877 ° -121.310063 °	9
DWR ID: DWR_RD2062_01_f_2012_9										

* Location	** Rating	+ Issue Type
LS : Land Side	A : Acceptable	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	En : Enforcement
	N : Not Inspected/Rated	
	C : Corrected	
	A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.69	09/24/2013 09/24/2013	Maksim Khashchuk

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
16	2.10	2.10	Earthen Levee	Slope Stability	WS	C	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Damage at hinge point appears to be caused by heavy equipment traffic.	37.793656 ° -121.309610 °	37.793656 ° -121.309610 °	13

DWR ID: DWR_RD2062_01_s_2012_13

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.69	09/24/2013 09/24/2013	Maksim Khashchuk

Levee Mile Report Line	10
Start Levee Mile	1.31
End Levee Mile	1.31
Location	Water Side
Category	Earthen Levee
Item	Animal Control

View of the animal burrows in the waterside levee slope.

mkhashch_f_20130924_639.JPG



Levee Mile Report Line	11
Start Levee Mile	1.67
End Levee Mile	1.67
Location	Water Side
Category	Earthen Levee
Item	Encroachments

View of the pipe penetrating the waterside levee slope.

mkhashch_f_20130924_640.JPG



Levee Mile Report Line	11
Start Levee Mile	1.67
End Levee Mile	1.67
Location	Water Side
Category	Earthen Levee
Item	Encroachments

View of the open pipes without a positive closure device installed.

mkhashch_f_20130924_641.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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A/W : Acceptable but Monitor & Maintain

+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.69	09/24/2013 09/24/2013	Maksim Khashchuk

Levee Mile Report Line	11
Start Levee Mile	1.67
End Levee Mile	1.67
Location	Water Side
Category	Earthen Levee
Item	Encroachments

View of the pipes with positive closure devices installed.

mkhashch_f_20131118_642.jpg



Levee Mile Report Line	12
Start Levee Mile	1.83
End Levee Mile	1.83
Location	Water Side
Category	Earthen Levee
Item	Animal Control

10/20/2011 Large burrow located on waterside slope of levee.

mkhashch_f_20130923_241.jpg



Levee Mile Report Line	12
Start Levee Mile	1.83
End Levee Mile	1.83
Location	Water Side
Category	Earthen Levee
Item	Animal Control

10/20/2011 Large burrow located near crown on waterside slope of levee.

mkhashch_f_20130923_242.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.69	09/24/2013 09/24/2013	Maksim Khashchuk

Levee Mile Report Line	12
Start Levee Mile	1.83
End Levee Mile	1.83
Location	Water Side
Category	Earthen Levee
Item	Animal Control
10/20/2011 Large burrow located on waterside slope of levee.	
mkhashch_f_20130923_243.jpg	



Levee Mile Report Line	12
Start Levee Mile	1.83
End Levee Mile	1.83
Location	Water Side
Category	Earthen Levee
Item	Animal Control
View of large burrow on waterside slope.	
mkhashch_f_20130923_244.JPG	

*** Location**

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WS : Water Side
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Reclamation District No. 2062 Stewart

Waterway			Bank	Unit Miles
Unit No. 02 Paradise Cut			Right	4.03
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	04/04/2013 - 04/04/2013		09/23/2013 - 09/23/2013	
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk	
Accompanied By	Michael Moncrief MBK Engineers		Michael Moncrief MBK Engineers	

Summer & Winter Inspections

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2062 Stewart

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut				Right	4.03	09/23/2013 09/23/2013	Maksim Khashchuk

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
1	0.11	0.49	Earthen Levee	Encroachments	WS	C	AT : Agricultural tilling Inspector Comments: Discing for weed control is creating a 2' scarp.	37.778969 ° -121.334198 °	37.783406 ° -121.338086 °	4
DWR ID: DWR_RD2062_02_s_2012_4										
2	0.57	0.57	Earthen Levee	Encroachments	LS A/W	Ma	PI : Pipe Inspector Comments: Drainage discharge pipe to Paradise Cut.	37.784356 ° -121.338975 °	37.784356 ° -121.338975 °	5
DWR ID: DWR_RD2062_02_s_2012_5										
3	0.76	0.76	Earthen Levee	Encroachments	WSA/W	Ma	PI : Pipe	37.786122 ° -121.341572 °	37.786122 ° -121.341572 °	8
DWR ID: DWR_RD2062_02_s_2012_8										
4	1.40	1.40	Earthen Levee	Encroachments	WSA/W	Ma	PI : Pipe Inspector Comments: Irrigation intake from Paradise Cut.	37.791831 ° -121.350424 °	37.791831 ° -121.350424 °	10
DWR ID: DWR_RD2062_02_s_2012_10										
5	1.67	1.67	Earthen Levee	Encroachments	WSA/W	Ma	PI : Pipe Inspector Comments: Two irrigation intakes.	37.794032 ° -121.354406 °	37.794032 ° -121.354406 °	11
DWR ID: DWR_RD2062_02_s_2012_11										
6	2.04	2.04	Earthen Levee	Animal Control	LS	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Burrow activity that appears to be active, no rodents seen.	37.797060 ° -121.359929 °	37.797060 ° -121.359929 °	12
DWR ID: DWR_RD2062_02_s_2012_12										
7	2.10	2.10	Earthen Levee	Animal Control	LS	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Multiple large burrows, appears to be active.	37.797558 ° -121.360815 °	37.797558 ° -121.360815 °	18
DWR ID: DWR_RD2062_02_s_2012_18										
8	2.19	2.19	Earthen Levee	Animal Control	LS	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Large single active burrow.	37.798304 ° -121.362138 °	37.798304 ° -121.362138 °	19
DWR ID: DWR_RD2062_02_s_2012_19										
9	2.19	2.19	Earthen Levee	Animal Control	WS	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Single active burrow on water side.	37.798304 ° -121.362138 °	37.798304 ° -121.362138 °	20
DWR ID: DWR_RD2062_02_s_2012_20										
10	2.39	2.50	Earthen Levee	Vegetation	LS	C	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.799955 ° -121.365089 °	37.800934 ° -121.366593 °	38
DWR ID: DWR_RD2062_02_f_2013_38										
11	2.54	3.94	Earthen Levee	Encroachments	LS	C	AT : Agricultural tilling Inspector Comments: Discing of the levee slope is the district's vegetation control method. Over time this could degrade the levee slope and create an integrity issue.	37.801211 ° -121.367142 °	37.808230 ° -121.390260 °	6
DWR ID: DWR_RD2062_02_s_2012_6										
12	2.89	2.89	Earthen Levee	Trim / Thin Trees	WS	N	T5 : Tree stumps. Inspector Comments: Three small tree stumps.	37.803827 ° -121.372424 °	37.803827 ° -121.372424 °	3
DWR ID: DWR_RD2062_02_s_2012_3										

*** Location**

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**** Rating**

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+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	4.03	09/23/2013 09/23/2013	Maksim Khashchuk

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
13	2.94	2.94	Earthen Levee	Trim / Thin Trees	WS	N Ma	T5 : Tree stumps. Inspector Comments: Four small oak stumps on levee slope.	37.804060 ° -121.373245 °	37.804060 ° -121.373245 °	13 Y
DWR ID: DWR_RD2062_02_s_2012_13										
14	3.03	3.03	Earthen Levee	Trim / Thin Trees	WS	N Ma	T5 : Tree stumps.	37.804452 ° -121.374903 °	37.804452 ° -121.374903 °	14 Y
DWR ID: DWR_RD2062_02_s_2012_14										
15	3.07	3.07	Earthen Levee	Trim / Thin Trees	WS	N Ma	T5 : Tree stumps.	37.804481 ° -121.375510 °	37.804481 ° -121.375510 °	15
DWR ID: DWR_RD2062_02_s_2012_15										
16	3.12	3.12	Earthen Levee	Trim / Thin Trees	LS	C Ma	T5 : Tree stumps. Inspector Comments: Four small stumps on levee slope.	37.804473 ° -121.376528 °	37.804473 ° -121.376528 °	16
DWR ID: DWR_RD2062_02_s_2012_16										
17	3.27	3.28	Supplemental	DWR Erosion Survey	WS	M Ma	Inspector Comments: 08/28/2013: No significant change observed. 07/26/2012: Site was visited on 07/26/2012. No significant changes observed. 09/02/2011: No significant changes observed on site from last visit. 09/22/2010: No significant changes observed on site. The fencing located on the berm was removed. Levee slope and berm area 10 feet from the levee toe are bare of any vegetation. The 1- to 2 feet of near-vertical scarp on the levee toe is unchanged. 03/09/2010: As discussed with Michael Moncrief of MBK Engineer, the district will address the site this year. 7/27/2009: 1 to 2 feet of near-vertical scarp on the levee toe; damage was most likely caused by agricultural equipment during clearing or tilling operation; this is a maintenance-related issue. [2013 Site ID:RD2062U02RM2.14]	37.804604 ° -121.379454 °	37.804604 ° -121.379454 °	1 Y
DWR ID:										
18	3.30	3.30	Earthen Levee	Encroachments	LS A/W	PI : Pipe Ma	Inspector Comments: Two discharge pipes. Third pipe was capped and plugged. Project to relocate pumps because of seepage boils, was permitted.	37.804748 ° -121.379697 °	37.804748 ° -121.379697 °	17 Y
DWR ID: DWR_RD2062_02_s_2012_17										

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	4.03	09/23/2013 09/23/2013	Maksim Khashchuk

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
19	3.44	3.53	Supplemental	DWR Erosion Survey	WS	M Ma	Inspector Comments: 08/28/2013: No significant change observed. 07/31/2012: Site was visited on 07/26/2012. No significant change observed. 09/02/2011: No significant change observed. 09/22/2010: No significant changes observed. The foot-high near-vertical scarp still exists on levee toe. There is little to no vegetation on the slope. 03/09/2010: As discussed with Michael Moncrief of MBK, site will be addressed this year. 07/27/2009: 1 to 2 feet of near-vertical scarp on levee toe; damage was most likely caused by farming equipment during clearing or tilling operation; this is a maintenance-related issue. [2013 Site ID:RD2062U02RM1.94]	37.805422 ° -121.383173 °	37.805422 ° -121.383173 °	2 Y
DWR ID:										
20	3.45	3.45	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.805455 ° -121.382235 °	37.805455 ° -121.382235 °	41 Y
DWR ID: DWR_RD2062_02_s_2012_41										
21	3.68	3.68	Earthen Levee	Trim / Thin Trees	WS	N Ma	T5 : Tree stumps. Inspector Comments: Small stump on slope.	37.806231 ° -121.386209 °	37.806231 ° -121.386209 °	9 Y
DWR ID: DWR_RD2062_02_s_2012_9										

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	4.03	09/23/2013 09/23/2013	Maksim Khashchuk

Levee Mile Report Line	2
Start Levee Mile	0.57
End Levee Mile	0.57
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the pipe daylighting at the landside levee toe.

mkhashch_f_20130923_255.JPG



Levee Mile Report Line	3
Start Levee Mile	0.76
End Levee Mile	0.76
Location	Water Side
Category	Earthen Levee
Item	Encroachments

View of the pump house at the waterside levee hinge.

mkhashch_f_20130923_257.JPG



Levee Mile Report Line	3
Start Levee Mile	0.76
End Levee Mile	0.76
Location	Water Side
Category	Earthen Levee
Item	Encroachments

View of the standpipe and slide gate at the landside levee slope.

mkhashch_f_20130924_642.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	4.03	09/23/2013 09/23/2013	Maksim Khashchuk

Levee Mile Report Line	4
Start Levee Mile	1.40
End Levee Mile	1.40
Location	Water Side
Category	Earthen Levee
Item	Encroachments

View of the pump house at the waterside levee hinge.

mkhashch_f_20130923_259.JPG



Levee Mile Report Line	5
Start Levee Mile	1.67
End Levee Mile	1.67
Location	Water Side
Category	Earthen Levee
Item	Encroachments

View of the pump house at the waterside levee hinge.

mkhashch_f_20130923_260.JPG



Levee Mile Report Line	6
Start Levee Mile	2.04
End Levee Mile	2.04
Location	Land Side
Category	Earthen Levee
Item	Animal Control

View of bait next to active burrow on landside slope.

mkhashch_f_20130923_261.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

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+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	4.03	09/23/2013 09/23/2013	Maksim Khashchuk

Levee Mile Report Line	7
Start Levee Mile	2.10
End Levee Mile	2.10
Location	Land Side
Category	Earthen Levee
Item	Animal Control
10/20/2011 Photo shows single large burrow, which appears to be active.	
mkhashch_f_20130923_263.jpg	



Levee Mile Report Line	7
Start Levee Mile	2.10
End Levee Mile	2.10
Location	Land Side
Category	Earthen Levee
Item	Animal Control
View of multiple burrow holes; the previously large burrow hole was not found at the time, but rodent activity is still present. 05/17/2012	
mkhashch_f_20130923_264.jpg	



Levee Mile Report Line	7
Start Levee Mile	2.10
End Levee Mile	2.10
Location	Land Side
Category	Earthen Levee
Item	Animal Control
View of active burrows on landside slope.	
mkhashch_f_20130923_265.JPG	



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	4.03	09/23/2013 09/23/2013	Maksim Khashchuk

Levee Mile Report Line	8
Start Levee Mile	2.19
End Levee Mile	2.19
Location	Land Side
Category	Earthen Levee
Item	Animal Control

View of animal burrows on landside levee slope.

mkhashch_f_20130924_643.JPG



Levee Mile Report Line	12
Start Levee Mile	2.89
End Levee Mile	2.89
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

Three small stumps on levee slope.

mkhashch_f_20130923_253.jpg



Levee Mile Report Line	13
Start Levee Mile	2.94
End Levee Mile	2.94
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

View of tree stumps on waterside slope.
05/17/2012

mkhashch_f_20130923_262.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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A/W : Acceptable but Monitor & Maintain

+ Issue Type

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En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	4.03	09/23/2013 09/23/2013	Maksim Khashchuk

Levee Mile Report Line	14
Start Levee Mile	3.03
End Levee Mile	3.03
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

View of the tree stump in the middle of the photo.

mkhashch_f_20130924_644.JPG



Levee Mile Report Line	17
Start Levee Mile	3.27
End Levee Mile	3.28
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Close view of scarp.

SJR2013_RD2062U02RM2.14_2.jpg



Levee Mile Report Line	18
Start Levee Mile	3.30
End Levee Mile	3.30
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the pipes on the waterside levee slope.

mkhashch_f_20130924_645.JPG



*** Location**

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WS : Water Side
CR : Crown

**** Rating**

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A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	4.03	09/23/2013 09/23/2013	Maksim Khashchuk

Levee Mile Report Line	19
Start Levee Mile	3.44
End Levee Mile	3.53
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of site.

SJR2013_RD2062U02RM1.94_1.jpg



Levee Mile Report Line	20
Start Levee Mile	3.45
End Levee Mile	3.45
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

View of bushy trees at levee toe obstructing visibility. 05/17/2012

mkhashch_f_20130923_267.jpg



Levee Mile Report Line	21
Start Levee Mile	3.68
End Levee Mile	3.68
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

05/11/2011 Small stump in waterside slope.

mkhashch_f_20130923_258.jpg



*** Location**

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CR : Crown

**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Reclamation District No. 2062 Stewart

Waterway			Bank	Unit Miles
Unit No. 03 Old River			Left	5.63
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	04/04/2013 - 04/04/2013		09/23/2013 - 09/24/2013	
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk	
Accompanied By	Michael Moncrief MBK Engineers		Michael Moncrief MBK Engineers	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	09/23/2013 09/24/2013	Maksim Khashchuk

LMR No.	Levee Mile		Category	Item	* Location	+ Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
1	-0.03	0.07	Supplemental	DWR Erosion Survey	WS	U Ma	Inspector Comments: 08/13/2013: No significant change observed. 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: Site is at the upstream of a drainage ditch. [2013 Site ID:RD2062U03RM29.93]	37.809673 ° -121.390321 °	37.809673 ° -121.390321 °	1 Y
DWR ID:										
2	0.08	0.08	Earthen Levee	Trim / Thin Trees	WS	N Ma	T5 : Tree stumps.	37.809727 ° -121.389100 °	37.809727 ° -121.389100 °	3 Y
DWR ID: DWR_RD2062_03_f_2012_3										
3	0.10	0.11	Supplemental	DWR Erosion Survey	WS	U Ma	Inspector Comments: 08/13/2013: No significant change observed. 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: Hard to view the erosion because of the dense vegetation and trees on site. The site is under the bush, close to the tree. [2013 Site ID:RD2062U03RM30.02]	37.810052 ° -121.388847 °	37.810052 ° -121.388847 °	2 Y
DWR ID:										
4	0.17	0.17	Earthen Levee	Trim / Thin Trees	WS	N Ma	T5 : Tree stumps.	37.810194 ° -121.387602 °	37.810194 ° -121.387602 °	6
DWR ID: DWR_RD2062_03_s_2012_6										
5	0.18	0.18	Supplemental	DWR Erosion Survey	WS	M Ma	Inspector Comments: 08/13/2013: No significant change observed. 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: The protection at the levee toe has been washed away. [2013 Site ID:RD2062U03RM30.1]	37.810468 ° -121.387492 °	37.810468 ° -121.387492 °	4 Y
DWR ID:										

*** Location**

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WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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A/W : Acceptable but Monitor & Maintain

+ Issue Type

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En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	09/23/2013 09/24/2013	Maksim Khashchuk

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
6	0.23	0.32	Supplemental	DWR Erosion Survey	WS	U Ma	Inspector Comments: 08/13/2013: A new pocket erosion at the upper levee slope has been found directly above a large tree. The erosion might have been caused by internal pipe leakage or surface runoff. 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: No significant changes observed on site. Dense vegetation is visible along the water line. 09/07/2010: No significant changes observed on site. Much of the upper slope was recently cleared of vegetation by spraying. 4- to 6-foot vertical scarp and pocket erosions are lined along a span of 475 feet. In some sections, the vertical scarp encroaches into the levee prism. There is a lack of berm along this reach, exposing the levee slope to high flow velocities during normal and flood events. 08/06/2010: Recommended as local maintenance issue, per CLRO. 03/09/2010: As discussed with Michael Moncrief of MBK Engineers, the site will be 'addressed' later this year. 09/29/2009: No major change observed since last visit; pocket erosion and a vertical scarp forming; this site was combined with Site RM30.13 and 30.02 with a combined total erosion length of 475 feet; recommended as annual assessment and monitoring of site, per CLRO CES Evaluation 2008 Report; previously rated "M". 11/05/2008: Top of vertical scarp has rip rap that appears to be sliding; rodent holes; existing toe rip rap. [2013 Site ID:RD2062U03RM30.19]	37.810609 ° -121.385879 °	37.810609 ° -121.385879 °	5 Y
7	0.35	0.35	Supplemental	DWR Erosion Survey	WS	M Ma	Inspector Comments: 08/13/2013: No significant change observed. 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: The site is right at the downstream of a river bend. [2013 Site ID:RD2062U03RM30.27]	37.811281 ° -121.384461 °	37.811281 ° -121.384461 °	8 Y
8	0.52	0.52	Earthen Levee	Encroachments	WSA/W	PI : Pipe Ma	Inspector Comments: Water intake pump station; 16" pipe	37.812687 ° -121.382800 °	37.812687 ° -121.382800 °	52 Y

DWR ID:

DWR ID:

DWR ID: DWR_RD2062_03_s_2012_52

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	09/23/2013 09/24/2013	Maksim Khashchuk

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
9	0.56	0.57	Supplemental	DWR Erosion Survey	WS	M Ma	<p>Inspector Comments: 08/13/2013: No significant change observed.</p> <p>08/07/2012: The site has been visited by boat survey. No significant change observed.</p> <p>08/23/2011: No significant changes observed on site.</p> <p>09/07/2010: No significant changes observed on site.</p> <p>Much of the placed rip rap revetment has slid. It is no longer adequately protecting the slope.</p> <p>08/06/2010: Recommended as local maintenance issue, per CLRO Report.</p> <p>03/09/2010: As discussed with Michael Moncrief of MBK, site will be 'addressed' this year.</p> <p>09/29/2009: No major change observed since last visit; a section of the rip rap has slipped, exposing a levee section that has eroded; recommended as local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM30.43,LM0.63; previously rated "U".</p> <p>11/05/2008: Site is located inside of a bend; scarp looks to be into the levee prism; piles of concrete chunks placed on the slope, with some of them already starting to slide.</p> <p>[2013 Site ID:RD2062U03RM30.43]</p>	37.813070 ° -121.383100 °	37.813070 ° -121.383100 °	9 Y
10	0.61	0.61	Earthen Levee	Trim / Thin Trees	WS	N Ma	<p>T5 : Tree stumps.</p> <p>Inspector Comments: Stump in slope.</p>	37.813570 ° -121.382094 °	37.813570 ° -121.382094 °	10 Y
11	0.65	0.65	Earthen Levee	Trim / Thin Trees	WS	N Ma	<p>T5 : Tree stumps.</p> <p>Inspector Comments: 2 stumps on waterside slope.</p>	37.813894 ° -121.381680 °	37.813894 ° -121.381680 °	12 Y
12	0.82	0.82	Earthen Levee	Erosion / Bank Caving	WS	M Ma	<p>E2 : Schedule repair of erosion site prior to the next inspection.</p> <p>Inspector Comments: Cracking developing along the waterside levee hinge.</p>	37.816315 ° -121.381587 °	37.816315 ° -121.381587 °	11 Y

DWR ID:

DWR ID: DWR_RD2062_03_s_2012_10

DWR ID: DWR_RD2062_03_s_2012_12

DWR ID: DWR_RD2062_03_s_2012_11

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

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Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	09/23/2013 09/24/2013	Maksim Khashchuk

LMR No.	Levee Mile		Category	Item	Location*	Rating** +	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
13	1.20	1.21	Supplemental	DWR Erosion Survey	WS	U Ma	Inspector Comments: 08/13/2013: No significant change observed. 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: No significant changes observed on site. 09/07/2010: No significant changes observed on site. Much of the seasonal grass along the slope was cleared. Site consists of an existing scalloped erosion approximately 30 feet long by 5 feet wide at its widest opening. The lateral crack is extended outwards along the middle slope. There is a 1 to 2 feet of differential settlement that could further develop into a shallow slide. 08/06/2010: Recommended as local maintenance issue, per CLRO. 03/09/2010: As discussed with Michael Moncrief of MBK Engineer, site will be 'addressed' this year. 09/28/2009: No major change observed; section of rip rap has slipped, creating a terraced effect; dense vegetation growth; recommended as a local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM31.12,LM1.25; previously rated "U". 09/14/2006: 1-2' into prism. [2013 Site ID:RD2062U03RM31.12]	37.819290 ° -121.378880 °	37.819290 ° -121.378880 °	13 Y
DWR ID:										
14	1.37	1.37	Earthen Levee	Vegetation	WSA/W	V4 : Elderberries are blocking visibility and flood fight capability. Inspector Comments: Elderberry bush blocks visibility.		37.820885 ° -121.376986 °	37.820885 ° -121.376986 °	18 Y
DWR ID: DWR_RD2062_03_s_2012_18										

*** Location**

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WS : Water Side
CR : Crown

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A/W : Acceptable but Monitor & Maintain

+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	09/23/2013 09/24/2013	Maksim Khashchuk

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
15	1.42	1.43	Supplemental	DWR Erosion Survey	WS	U Ma	Inspector Comments: 08/13/2013: No significant change observed. 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: No significant changes observed on site. 09/07/2010: No significant changes observed on site. There is a small- to medium sized Oak tree on the mid-slope just above rip rap. Some of the rip rap has collapsed, creating a pocket erosion just above the existing toe rip rap and upstream of the Oak tree. 08/06/2010: Recommended as local maintenance issue, per CLRO. 03/09/2010: As discussed with Michael Moncrief of MBK Engineer, site will be 'addressed' in 2010. 09/29/2009: No major change since last visit; sliding of the rip rap at the base of the lone tree; there is noticeable man-made trail and foot traffic extending from the crown to the toe; much of the broken concrete used as temporary rip rap has slid, exposing portion of the bare levee slope; recommended as local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM31.3, LM1.45; previously rated "M". 11/05/2008: Portion of rip rap collapsing. 09/14/2006: Portion of rip rap along the slope has collapsed; exposed levee section is starting to erode, exposing roots from the nearby tree. [2013 Site ID:RD2062U03RM31.28]	37.821380 ° -121.376900 °	37.821380 ° -121.376900 °	20 Y
16	1.52	1.52	Earthen Levee	Trim / Thin Trees	WS	N Ma	T5 : Tree stumps.	37.821388 ° -121.374947 °	37.821388 ° -121.374947 °	14
DWR ID: DWR_RD2062_03_s_2012_14										
17	1.67	1.67	Earthen Levee	Trim / Thin Trees	WS	N Ma	T5 : Tree stumps.	37.820890 ° -121.372227 °	37.820890 ° -121.372227 °	15 Y
DWR ID: DWR_RD2062_03_s_2012_15										
18	1.78	1.78	Earthen Levee	Trim / Thin Trees	WS	N Ma	T5 : Tree stumps.	37.820902 ° -121.370565 °	37.820902 ° -121.370565 °	16
DWR ID: DWR_RD2062_03_s_2012_16										
19	2.15	2.15	Earthen Levee	Encroachments	WSA/W	PI : Pipe Ma	Inspector Comments: Irrigation intake.	37.818645 ° -121.364894 °	37.818645 ° -121.364894 °	19 Y
DWR ID: DWR_RD2062_03_s_2012_19										
20	2.80	2.80	Earthen Levee	Encroachments	WSA/W	PI : Pipe Ma	Inspector Comments: Irrigation intake	37.816364 ° -121.354348 °	37.816364 ° -121.354348 °	21 Y
DWR ID: DWR_RD2062_03_s_2012_21										
21	2.83	2.83	Earthen Levee	Trim / Thin Trees	WS	N Ma	T5 : Tree stumps.	37.816341 ° -121.354008 °	37.816341 ° -121.354008 °	22
DWR ID: DWR_RD2062_03_s_2012_22										
22	2.90	2.90	Earthen Levee	Trim / Thin Trees	WS	N Ma	T5 : Tree stumps.	37.816330 ° -121.352775 °	37.816330 ° -121.352775 °	23
DWR ID: DWR_RD2062_03_s_2012_23										

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2062 Stewart

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River						Left	5.63	09/23/2013 09/24/2013	Maksim Khashchuk

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
23	3.07	3.07	Earthen Levee	Trim / Thin Trees	WS	N Ma	T5 : Tree stumps.	37.817791 ° -121.350088 °	37.817791 ° -121.350088 °	25
DWR ID: DWR_RD2062_03_s_2012_25										
24	3.14	3.14	Earthen Levee	Trim / Thin Trees	WS	N Ma	T5 : Tree stumps.	37.818532 ° -121.349510 °	37.818532 ° -121.349510 °	26
DWR ID: DWR_RD2062_03_s_2012_26										
25	3.44	3.44	Earthen Levee	Trim / Thin Trees	WS	N Ma	T5 : Tree stumps.	37.819172 ° -121.345760 °	37.819172 ° -121.345760 °	28
DWR ID: DWR_RD2062_03_s_2012_28										
26	3.80	3.80	Earthen Levee	Trim / Thin Trees	WS	M Ma	T2 : Thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: Beaver damaged a tree; remove from slope.	37.817160 ° -121.340933 °	37.817160 ° -121.340933 °	53 Y
DWR ID: DWR_RD2062_03_s_2012_53										
27	4.20	4.20	Earthen Levee	Trim / Thin Trees	WS	N Ma	T5 : Tree stumps.	37.820407 ° -121.338122 °	37.820407 ° -121.338122 °	33
DWR ID: DWR_RD2062_03_s_2012_33										
28	4.51	4.51	Earthen Levee	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.818027 ° -121.333612 °	37.818027 ° -121.333612 °	17
DWR ID: DWR_RD2062_03_f_2012_17										
29	4.82	4.82	Earthen Levee	Trim / Thin Trees	LS	N Ma	T5 : Tree stumps. Inspector Comments: 14" stump on landside slope.	37.813986 ° -121.335821 °	37.813986 ° -121.335821 °	7 Y
DWR ID: DWR_RD2062_03_s_2012_7										
30	4.83	4.83	Earthen Levee	Animal Control	WS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.812791 ° -121.336074 °	37.812791 ° -121.336074 °	43 Y
DWR ID: DWR_RD2062_03_s_2012_43										
31	5.45	5.45	Earthen Levee	Encroachments	WSA/W	PI : Pipe Ma	Inspector Comments: Two large irrigation intake pumps and pipes.	37.807321 ° -121.331292 °	37.807321 ° -121.331292 °	34 Y
DWR ID: DWR_RD2062_03_s_2012_34										

*** Location**

LS : Land Side
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CR : Crown

**** Rating**

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A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	09/23/2013 09/24/2013	Maksim Khashchuk

Levee Mile Report Line	1
Start Levee Mile	-0.03
End Levee Mile	0.07
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Looking from downstream.

SJR2013_RD2062U03RM29.93_1.jpg



Levee Mile Report Line	2
Start Levee Mile	0.08
End Levee Mile	0.08
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

View of tree stumps on waterside slope.

mkhashch_f_20130923_299.JPG



Levee Mile Report Line	3
Start Levee Mile	0.10
End Levee Mile	0.11
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site.

SJR2013_RD2062U03RM30.02_1.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	09/23/2013 09/24/2013	Maksim Khashchuk

Levee Mile Report Line	5
Start Levee Mile	0.18
End Levee Mile	0.18
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the erosion.

SJR2013_RD2062U03RM30.1_2.jpg



Levee Mile Report Line	6
Start Levee Mile	0.23
End Levee Mile	0.32
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Close view of the pocket erosion.

SJR2013_RD2062U03RM30.19_2.jpg



Levee Mile Report Line	7
Start Levee Mile	0.35
End Levee Mile	0.35
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Upstream view of the erosion.

SJR2013_RD2062U03RM30.27_1.jpg



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	09/23/2013 09/24/2013	Maksim Khashchuk

Levee Mile Report Line	8
Start Levee Mile	0.52
End Levee Mile	0.52
Location	Water Side
Category	Earthen Levee
Item	Encroachments

View of the pump house on the waterside levee slope.

mkhashch_f_20130924_646.JPG



Levee Mile Report Line	9
Start Levee Mile	0.56
End Levee Mile	0.57
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Close view of the site.

SJR2013_RD2062U03RM30.43_1.jpg



Levee Mile Report Line	10
Start Levee Mile	0.61
End Levee Mile	0.61
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

05/11/2011 Stump in slope, new growth in center of photo is at the location of the stump.

mkhashch_f_20130923_303.jpg



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	09/23/2013 09/24/2013	Maksim Khashchuk

Levee Mile Report Line	12
Start Levee Mile	0.82
End Levee Mile	0.82
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

View of slope erosion from foot traffic.

mkhashch_f_20130923_304.JPG



Levee Mile Report Line	12
Start Levee Mile	0.82
End Levee Mile	0.82
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

View of cracking at waterside levee hinge.

mkhashch_f_20130924_647.JPG



Levee Mile Report Line	13
Start Levee Mile	1.20
End Levee Mile	1.21
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site. Existing scalloped erosion is immediately downstream of rip rap section.

SJR2013_RD2062U03RM31.12_1.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	09/23/2013 09/24/2013	Maksim Khashchuk

Levee Mile Report Line	14
Start Levee Mile	1.37
End Levee Mile	1.37
Location	Water Side
Category	Earthen Levee
Item	Vegetation

05/11/2011 Elderberry bush on water side slope.

mkhashch_f_20130923_306.jpg



Levee Mile Report Line	15
Start Levee Mile	1.42
End Levee Mile	1.43
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site.

SJR2013_RD2062U03RM31.28_1.jpg



Levee Mile Report Line	17
Start Levee Mile	1.67
End Levee Mile	1.67
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

View of the tree stump on the waterside levee slope.

mkhashch_f_20130923_305.JPG



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	09/23/2013 09/24/2013	Maksim Khashchuk

Levee Mile Report Line	19
Start Levee Mile	2.15
End Levee Mile	2.15
Location	Water Side
Category	Earthen Levee
Item	Encroachments

View of the pump house on the waterside levee slope.

mkhashch_f_20130924_648.JPG



Levee Mile Report Line	20
Start Levee Mile	2.80
End Levee Mile	2.80
Location	Water Side
Category	Earthen Levee
Item	Encroachments

View of the pump house on the waterside levee slope.

mkhashch_f_20130924_649.JPG



Levee Mile Report Line	26
Start Levee Mile	3.80
End Levee Mile	3.80
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

View of damaged tree by beaver on waterside slope.

mkhashch_f_20130923_316.JPG



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	09/23/2013 09/24/2013	Maksim Khashchuk

Levee Mile Report Line	29
Start Levee Mile	4.82
End Levee Mile	4.82
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

10/21/2011 Photo taken the next day. Stump can be seen in the lower center of the photo.

mkhashch_f_20130923_302.jpg



Levee Mile Report Line	30
Start Levee Mile	4.83
End Levee Mile	4.83
Location	Water Side
Category	Earthen Levee
Item	Animal Control

Animal burrow on levee slope.

mkhashch_f_20130923_314.jpg



Levee Mile Report Line	30
Start Levee Mile	4.83
End Levee Mile	4.83
Location	Water Side
Category	Earthen Levee
Item	Animal Control

Animal burrows on levee slope.

mkhashch_f_20130923_315.jpg



*** Location**

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CR : Crown

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	09/23/2013 09/24/2013	Maksim Khashchuk

Levee Mile Report Line	31
Start Levee Mile	5.45
End Levee Mile	5.45
Location	Water Side
Category	Earthen Levee
Item	Encroachments

View of the pipe penetrating the waterside levee slope.

mkhashch_f_20130923_313.JPG



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